

WYOMING PAID FIREMEN'S RETIREMENT FUND PLAN A

ACTUARIAL VALUATION REPORT FOR THE YEAR BEGINNING JANUARY 1, 2015



April 27, 2015

Board of Trustees

Wyoming Paid Firemen's Retirement Fund Plan A
6101 Yellowstone Road
Suite 500
Cheyenne, WY 82002

Dear Board of Trustees:

Subject: Actuarial Valuation as of January 1, 2015

We are pleased to present the report of the actuarial valuation of the Wyoming Paid Firemen's Retirement Fund Plan A ("the Fund") for the plan year commencing January 1, 2015. This report describes the current actuarial condition of the Fund, determines the calculated employer contribution amount (the actuarially determined contribution amount), and analyzes changes in this contribution amount from the prior year. Valuations are prepared annually, as of January 1, the first day of the Fund's plan year.

Financing objectives and funding policy

Assuming the suspension of contributions to the Fund, investments are the only funding source for this plan. The purpose of this actuarial valuation is to determine what contribution requirement, in addition to investments, would be needed to meet obligations of the Fund.

If no further contributions are made, the valuation results indicate that the assets in the Fund could be depleted prior to fully settling the obligations of the fund.

Progress toward realization of financing objectives

The funded ratio (the ratio of the actuarial value of assets to the actuarial accrued liability) is a standard measure of a plan's funded status. The funded ratio, based upon the assumption of 3.0% cost-of-living adjustment increases as of January 1, 2015, is 67.29%. This funded ratio was 68.32% as of January 1, 2014. On a market value of assets basis, the Fund's funded ratio decreased from 71.55% as of January 1, 2014 to 68.19% as of January 1, 2015.

Benefit provisions

The benefit provisions reflected in this valuation are those which were in effect on January 1, 2015. This valuation does include the liability for the automatic annual 3% cost-of-living adjustment. There were no changes in the benefit provisions since the prior valuation.

The benefit provisions are summarized in Appendix B of the report.

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Assumptions and methods

Actuarial assumptions and methods are set by the Board, based upon recommendations made by the plan's actuary. The current assumptions used in the actuarial valuation were adopted by the Board effective February 22, 2013 and were first utilized with the January 1, 2014 valuation report. For a detailed description of the experience related to these assumptions as well as the rationale for the changes please see our latest Wyoming Retirement System Actuarial Experience Study Report. Our experience study report is dated February 21, 2013 and it covers the five-year investigation period ending December 31, 2011.

The results of the actuarial valuation are dependent upon the actuarial assumptions used. Actual results can and almost certainly will differ, as actual experience deviates from the assumptions. Even seemingly minor changes in the assumptions can materially change the liabilities, calculated contribution amounts and funding periods. The actuarial calculations presented in the report are intended to provide information for rational decision making.

All assumptions and methods are described in Appendix A of the report.

Data

Member data for retired, active and inactive members was supplied as of January 1, 2015 by the Fund's staff. We did not audit this data, but we did apply a number of tests to the data, and we concluded that it was reasonable and consistent with the prior year's data.

Asset and financial information as of January 1, 2015 was prepared by Wyoming Retirement System and is the responsibility of management. McGee, Hearne & Paiz, LLP provided us the asset and financial information and will opine on Wyoming Retirement System's statements.

Plan experience

As part of each valuation, we examine the Fund's experience relative to the assumptions. As experience in a given year deviates from the assumptions, a gain occurs if the liabilities grow slower than the assumption set anticipates and a loss occurs if the liabilities grow faster. This past fiscal year the Fund experienced a total loss on the unfunded actuarial accrued liability of approximately \$6.37 million, primarily due to contributions less than expected. The aggregate result of this is disclosed in Table 3 under Section III of the report.

Actuarial certification

All of the tables contained in this actuarial valuation report were prepared by Gabriel, Roeder, Smith & Company. Historical information for years prior to 2010 was prepared by the prior actuarial firm and was not subjected to our actuarial review.

We certify that the information presented herein is accurate and fairly portrays the actuarial position of the Fund as of January 1, 2015.

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All of our work conforms with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board. In our opinion, our calculations also comply with the requirements of state law and, where applicable, the Internal Revenue Code and ERISA. The undersigned are independent actuaries and consultants. Mark Randall and Leslie Thompson are Enrolled Actuaries and Members of the American Academy of Actuaries, and both meet all the Qualification Standards of the American Academy of Actuaries.

Finally, both of the undersigned are experienced in performing valuations for large public retirement systems.

Respectfully submitted,

Gabriel, Roeder, Smith & Company

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EXECUTIVE SUMMARY

Executive Summary

			January	1,2015	January 1, 2014
		Item	3.0% COLA	0.0% COLA	3.0% COLA
1.	Co	ntributions:			
	a.	Total normal cost	\$52,589	\$34,878	\$58,071
	b.	Employee contributions	-	-	-
	c.	Other expected contributions			
	d.	Net employer normal cost	\$52,589	\$34,878	\$58,071
	e.	Amortization payment	9,527,008	2,142,560	9,272,922
	f.	Administrative expenses	135,100	135,100	127,100
	g.	Required contributions	\$9,714,697	\$2,312,538	\$9,458,093
	h.	Statutory contributions		<u> </u>	
	i.	Shortfall/(surplus)	\$9,714,697	\$2,312,538	\$9,458,093
2.	Fu	nding Elements:			
	a.	Market value of assets (MVA)	\$139,939,506	\$139,939,506	\$147,572,826
	b.	Actuarial value of assets (AVA)	\$138,087,746	\$138,087,746	\$140,917,231
	c.	Actuarial accrued liability (AAL)	\$205,216,099	\$153,184,458	\$206,255,267
	d.	Unfunded/(overfunded) AAL (UAAL)	\$67,128,353	\$15,096,712	\$65,338,036
3.	Co	ntributions and Ratios:			
	a.	Annual required contribution	\$9,714,697	\$2,312,538	\$9,458,093
	b.	Actual contributions			
		i. Employer	-	-	-
		ii. Other	-	-	-
	c.	Percentage contributed	-	-	-
	d.	Funded ratio on an actuarial basis (AVA/AAL)	67.29%	90.14%	68.32%
	e.	Funded ratio on a market basis (MVA/AAL)	68.19%	91.35%	71.55%
	f.	Projected payroll	\$179,486	\$179,486	\$198,404

SECTION II

DISCUSSION

Contribution Requirements

- Exhibits throughout this report are based primarily, unless stated otherwise, on the assumption of 3.00% cost-of-living adjustment increases (COLAs).
- The current funding policy of no member or employer contributions is not expected to sustain the plan over the long term with the current level of benefits. Over time, either additional funding will be needed or the current benefit expectations will have to be reduced.
 - Assets are projected to be depleted in the year 2029. With no COLA incorporated after January 1, 2015, assets are projected to be depleted in the year 2035.
- There were no changes to the benefit provisions since the prior valuation.
- There were no changes to the actuarial assumptions or methods since the prior valuation.
- The amortization payment is based upon the following assumptions:
 - 10-year open funding period
 - Amortization payment amounts are calculated to remain level
- The analysis of the changes in the contribution rates is shown in Table 5 under Section III of the report
- The unfunded accrued liability increased from \$65 million to \$67 million.

Calculation of Contribution Amounts

The valuation determines the contribution requirement for the year. There is no scheduled funding for Plan A. The employer calculated contribution has three components:

- The normal cost (NC)
- The amortization of the (UAAL)
- The administrative expenses

The NC is the theoretical amount which would be required to pay the members' benefits if this amount had been contributed from each member's entry date and if the fund's experience exactly followed the actuarial assumptions.

The actuarial accrued liability (AAL) is the difference between (i) the actuarial present value of all future benefits for all current participants of the fund, including active, inactive and retired members, and (ii) the actuarial present value of future normal costs. Thus the AAL represents the liability associated with past years. The unfunded actuarial accrued liability (UAAL) is the difference between the AAL and the actuarial value of assets (AVA). It is the shortfall/excess between the liability associated with prior years (the AAL) and the assets actually accumulated (the AVA). This shortfall/excess can arise from several sources, including actuarial gains and losses which are caused by differences between actual experience and the plan's assumptions, changes to the plan's actuarial assumptions, and amendments to the benefit provisions.

The amortization of the UAAL is the amount required to fund this difference. It is the amount, expressed as a level dollar amount, necessary to amortize the UAAL. This amortization is over a period of 10 years beginning January 1, 2015. The Executive Summary shows the amortization of the UAAL, called Amortization Payment, compared to that of last year.

Assumed administrative expenses are the average of the prior two years, with each year projected at 6.5% to the valuation date.

The calculated contributions are necessary to meet the Actuarially Determined Contribution for the twelve-month period beginning January 1, 2015.

GRS

Financial Data and Experience

As of January 1, 2015, the Fund has a total market value of \$140 million. Financial information was received from McGee, Hearne & Paiz, LLP.

Table 5 under Section III of the report shows a reconciliation of the market values between the beginning and end of 2014.

During 2014, the net investment return on the market value of assets (MVA), as reported by NEPC, LLC, was 4.70%, as shown in Tables 7 and 8 under Section III of the report.

In determining the contribution rates and funded status of the Fund, an actuarial value of assets (AVA) is used rather than the market value of assets. The actuarial value of assets is based on the market value of assets with a five-year phase-in of actual investment return in excess of (or less than) expected investment income. Expected investment income is determined using the assumed investment return rate and the market value of assets (adjusted for receipts and disbursements during the year). The returns are computed net of administrative and investment expenses. An adjustment is made if the actuarial value is not within 20% of the Market Value. For any year following a year in which the 20% of market value adjustment was applied, the actuarial value is determined as if the adjustment was not applied in the previous year.

The development of the AVA is shown in Table 7 under Section III of the report. The AVA as of January 1, 2015 is \$138 million. The AVA is 98.68% of the MVA as of January 1, 2015, compared to 95.49% last year. The difference between the AVA and the MVA is the deferred gains and losses. As of January 1, 2014, the total deferred gain was \$ 6.7 million. As of January 1, 2015, the total deferred gain was \$ 1.9 million.

In addition to the market return, Table 7 also shows the return on the actuarial value of assets for the Fund. For 2014, this return was 8.89%. Because this is greater than the prior assumed 7.75% investment return, an actuarial gain occurred, decreasing the unfunded actuarial accrued liabilities of the Fund by \$1.5 million.

GRS 4

Member Data

Member data as of January 1, 2015 was supplied electronically by the Fund's staff. While we did not audit this data, we did perform various tests to ensure that it was internally consistent, consistent with the prior year's data, and was reasonable overall.

Table 13 under Section III of the report shows the number of members by category (active, inactive, retired, etc.) along with member statistics. Tables 14 through 22 show summaries of certain historical data and include membership statistics.

The total payroll shown on the statistical tables is the amount that was supplied by the Fund, annualized, if necessary.

Total active member payroll decreased 9.54% from last year, compared with a 59.20% decrease the prior year.

Of the 3 active participants, all of them are eligible or will become eligible for normal retirement in 2015.



Benefit Provisions

Appendix B of the report includes a more detailed summary of the benefit provisions for the Fund. Effective July 1, 1981, this plan was closed to new entrants. A brief summary is as follows:

- Normal Retirement Eligibility
 - At least 20 years of service.
- Normal Retirement Benefit
 - 75.0% of the maximum salary for a fireman first class for the first 20 years of service plus 1.5% of the maximum salary for a fireman first class for each year in excess of 20 years
- Normal Form of Payment is a 100% Joint & Survivor Annuity
- Employee Contributions
 - None are required
- Post-retirement cost-of-living adjustments (COLAs) may be granted each year at a rate of 3.00%.

There have been no changes to plan provisions since the prior valuation.



Actuarial Methods and Assumptions

Appendix A of the report includes a summary of the actuarial assumptions and methods used in this valuation. A few highlights are listed as follows:

- Costs are determined using the Entry Age Normal actuarial cost method, calculated as a level dollar amount.
- The unfunded actuarial accrued liability is amortized over an open 10 year period as a level dollar amount.
- The assumed annual investment return rate is 7.75%, with assumed inflation of 3.25%.
- Payroll is assumed to increase at 0.00% per year.
- Inactive vested participants are assumed to retire 20 years after the participant's date of hire.
- No benefit data is available for members entitled to deferred benefits. The present value of benefits expected to be paid to vested inactive non-retired members is approximated using the data provided.

The average future lifetime for current pensioners is 17.0 years.

There have been no changes to actuarial assumptions or methods since the prior valuation.



GASB and Funding Progress

Governmental Accounting Standards Board Statement Number 67 (GASB 67) contains certain accounting requirements for the Fund. Schedules, notes and required supplementary information are provided under separate cover.





SUPPORTING EXHIBITS

Calculation of Annual Required Contribution

(Assumes 3.00% Annual Cost-Of-Living Increases)

	Item	January 1, 2015	January 1, 2014
	ICHI	January 1, 2013	January 1, 2014
1.	Projected valuation payroll	\$179,486	\$198,404
2.	Present value of future pay	\$327,298	\$436,238
3.	Employer normal cost	\$52,589	\$58,071
4.	Actuarial accrued liability for active members		
	a. Present value of future benefits for active members	\$2,937,576	\$3,197,224
	b. Less: present value of future employer normal costs	(106,087)	(140,686)
	c. Less: present value of future employee contributions		_
	d. Actuarial accrued liability	\$2,831,489	\$3,056,538
5.	Total actuarial accrued liability for:		
٥.	a. Retirees and beneficiaries	\$192,603,398	\$192,761,067
	b. Disabled members	9,779,668	10,436,118
	c. Inactive members	1,544	1,544
	d. Active members (Item 4d)	2,831,489	3,056,538
	e. Total	\$205,216,099	\$206,255,267
6.	Actuarial value of assets (Table 7)	\$138,087,746	\$140,917,231
7.	Unfunded actuarial accrued liability (UAAL)		
	(Item 5e - Item 6)	\$67,128,353	\$65,338,036
8.	Funding period	10 years	10 years
9.	Assumed payroll growth rate	0.00%	0.00%
10.	Employer contribution requirement		
	a. UAAL amortization payment	\$9,527,008	\$9,272,922
	b. Employer normal cost	52,589	58,071
	c. Administrative expense	135,100	127,100
	d. Contribution requirement $(a + b + c)$	\$9,714,697	\$9,458,093

Cost Breakdown

(Assumes 3.00% Annual Cost-Of-Living Increases)

	Present Value of Future Normal Costs	Actuarial Accrued Liabilities	Total Present Value of Benefits
Item	(1)	(2)	(3) = (1) + (2)
Age and service allowances based on total service and disability benefits likely to be rendered by present active members	\$91,165	\$2,830,139	\$2,921,304
Death-in-service benefits likely to be paid on behalf of present active members (employer financed portion)	2,297	13,975	16,272
Separation benefits (refunds of contributions and deferred allowances) likely to be paid to present active members	12,625	(12,625)	0
Benefits likely to be paid to vested inactive members	0	O	0
Benefits to be paid to members due refunds	0	1,544	1,544
Benefits to be paid to current retirees, disabled members, beneficiaries, and future beneficiaries of current retirees	0	202,383,066	202,383,066
Total	\$106,087	\$205,216,099	\$205,322,186
Actuarial value of assets	0	138,087,746	138,087,746
Liabilities to be covered by future contributions	\$106,087	\$67,128,353	\$67,234,440



Calculation of Total Actuarial Gain/(Loss)

(Assumes 3.00% Annual Cost-Of-Living Increases)

Item	January 1, 2015
1. Derivation of Experience Gain/(Loss)	
a. Unfunded actuarial accrued liability (UAAL) - previous valuation	\$65,338,036
b. Normal cost (NC) for fiscal year ending December 31, 2014	58,071
c. Actual administrative expenses for fiscal year ending December 31, 2014	115,406
d. Actuarially determined contribution for fiscal year ending December 31, 2014	9,458,093
e. Interest accrual:	
(i) For whole year on (a)	5,063,698
(ii) For half year on (b) $+$ (c) $-$ (d)	(359,779)
(iii) Total interest: $(e)(i) + (e)(ii)$	4,703,919
f. Change in UAAL due to plan changes	-
g. Change in UAAL due to assumption change	-
h. Expected UAAL current year: $(a) + (b) + (c) - (d) + (e)(iii) + (f) + (g)$	60,757,339
i. Actual UAAL current year	67,128,353
j. Experience gain/(loss): (h) - (i)	(6,371,014)
k. Experience gain/(loss) as a % of actuarial accrued liability	-3.10%
2. Approximate Portion of Gain/(Loss) Due to Investments	
(at Actuarial Value)	\$1,488,576
3. Approximate Portion of Gain/(Loss) Due to Contributions	
higher or lower than Expected	(\$9,824,594)
4. Approximate Portion of Gain/(Loss) Due to Liabilities: (1)(j) - (2) - (3)	\$1,965,005
a. Age & service retirements	\$90,454
b. Disability retirements	-
c. Death-in-service	320
d. Withdrawal from employment	-
e. Pay increases	-
f. Death after retirement	1,322,534
g. Other	551,696
h. Other as a % of actuarial accrued liability	0.27%



Statement of Plan Net Assets

Assets at Market Value					
Item	FYE 2014	FYE 2013			
1. Cash and Cash Equivalents (Operating Cash)	\$8,996,647	\$5,260,218			
2. Receivables					
a. Buy backs	\$0	\$0			
b. Securities sold	69,501	642,283			
c. Accrued interest and dividends	363,556	466,258			
d. Currency contract receivable	20,572,621	19,387,005			
e. Other	-	_			
f. Rebate and fee income receivable					
g. Total receivables	\$21,005,678	\$20,495,546			
3. Investments, at Fair Value	\$143,364,483	\$159,933,042			
4. Liabilities					
a. Benefits and refunds payable	\$0	(\$3,704)			
b. Accrued payroll taxes and deductions	-	-			
c. Securities purchased	(1,271,403)	(1,963,231)			
d. Administrative and consulting fees payable	(244,313)	(249,757)			
e. Currency contract payable	(20,111,388)	(19,485,670)			
f. Securities lending collateral	(11,800,198)	(16,413,618)			
g. Total liabilities	(\$33,427,302)	(\$38,115,980)			
5. Total Market Value of Assets Available for Benefits	\$139,939,506	\$147,572,826			



Reconciliation of Plan Net Assets

	Assets at Market Value				
	Item	FYE 2014	FYE 2013		
A.	Market Value of Assets at Beginning of Year	\$147,572,826	\$143,734,960		
В.	Contribution Income:				
	1. Contributions				
	a. Employee	-	-		
	b. Employer	-	-		
	c. Other	-	-		
	d. Total	-	-		
	2. Investment Income				
	a. Interest, dividends, and other income	\$3,568,784	\$3,639,586		
	b. Net appreciation	4,329,777	15,471,173		
	c. Investment expenses	(908,840)	(872,216)		
	d. Net investment income	\$6,989,721	\$18,238,543		
	3. Securities Lending				
	a. Gross income	\$87,446	\$100,149		
	b. Deductions	(13,101)	(15,016)		
	c. Net investment income	\$74,345	\$85,133		
	4. Benefits and Refunds				
	a. Refunds	-	-		
	b. Regular monthly benefits	(\$14,581,980)	(\$14,355,873)		
	c. Total	(\$14,581,980)	(\$14,355,873)		
	5. Administrative and Miscellaneous Expenses	(\$115,406)	(\$129,937)		
C.	Market Value of Assets at End of Year	\$139,939,506	\$147,572,826		



Progress of Fund Through December 31, 2014

Plan Year				Net			
Ending	Employer	Employee	Administrative	Investment	Benefit		Actuarial Value
December 31	Contributions*	Contributions	Expenses	Income**	Payments	Transfers	of Assets
Total	\$242,988	-	(\$772,325)	\$88,391,530	(\$173,160,790)	-	
2000	-	-	-	-	-	-	\$194,656,466
2001	-	-	(\$14,593)	\$20,640,626	(\$7,901,445)	-	207,381,054
2002	-	-	(21,417)	(4,596,047)	(9,834,829)	-	192,928,800
2003	-	-	(8,834)	17,679,772	(10,717,703)	-	199,882,000
2004	-	-	(11,415)	3,646,859	(11,420,772)	-	192,096,700
2005	-	-	(17,582)	8,097,392	(11,858,914)	-	188,317,600
2006	-	-	(32,161)	14,989,755	(12,151,691)	-	191,123,500
2007	-	-	(43,747)	21,976,808	(12,468,812)	-	200,587,700
2008	-	-	(59,024)	(25,042,154)	(12,858,106)	-	162,628,400
2009	-	-	(60,827)	560,236	(13,279,752)	-	178,577,966
2010	-	-	(64,054)	3,155,329	(13,631,269)	-	168,037,972
2011	-	-	(91,234)	(703,688)	(13,872,314)	-	153,370,736
2012	\$242,988	-	(102,094)	(102,851)	(14,227,330)	-	139,181,449
2013	-	-	(129,937)	16,221,592	(14,355,873)	-	140,917,231
2014	-	-	(115,406)	11,867,901	(14,581,980)	-	138,087,746

^{*} Includes other funding sources



^{**} Net of investment expenses

Development of Actuarial Value of Assets

Item	FYE 2014	FYE 2013
1. Actuarial value of assets, beginning of year (before corridor)	\$140,917,231	\$139,181,449
2. Market value, end of year	\$139,939,506	\$147,572,826
3. Market value, beginning of year	\$147,572,826	\$143,734,960
4. Non-investment/administrative net cash flow:		
a. Employee contributions	\$0	\$0
b. Employer contributions	-	-
c. Other contributions	-	-
d. Refund of employee accounts	-	-
e. Retirement benefits	(14,581,980)	(14,355,873)
f. Administrative expenses	(115,406)	(129,937)
g. Total net cash flow: [sum of (4a) through (4f)]	(\$14,697,386)	(\$14,485,810)
5. Investments and securities lending:		
a. Interest and dividends on investments	\$3,568,784	\$3,639,586
b. Gross income from securities lending	87,446	100,149
c. Fees and expenses	(921,941)	(887,232)
d. Total net income: [sum of (5a) through (5c)]	\$2,734,289	\$2,852,503
6. Investment income:		
a. Actual market return: (2) - (3) - (4g) - (5d)	\$4,329,777	\$15,471,173
b. Assumed rate of return**	7.75%	8.00%
c. Assumed amount of return	8,143,708	8,078,008
d. Amount subject to phase-in: (6a) - (6c)	(\$3,813,931)	\$7,393,165
7. Phase-in recognition of investment income:		
a. Current year: 0.20 * (6d)	(\$762,786)	\$1,478,633
b. First prior year	1,478,633	1,560,646
c. Second prior year	1,560,646	(2,654,297)
d. Third prior year	(2,654,297)	1,367,708
e. Fourth prior year	1,367,708	3,538,391
f. Total recognition	\$989,904	\$5,291,081
8. Actuarial value of assets, end of year		
a. Preliminary actuarial value of assets, end of year:		
(1) + (4g) + (5d) + (6c) + (7f)	\$138,087,746	\$140,917,231
b. Upper corridor limit: 120% * (2)	167,927,407	177,087,391
c. Lower corridor limit: 80% * (2)	111,951,605	118,058,261
d. Actuarial value of assets, end of year	\$138,087,746	\$140,917,231
9. Difference between market and actuarial value of assets	\$1,851,760	\$6,655,595
10. Actuarial rate of return	8.89%	12.29%
11. Market rate of return*	4.70%	13.53%
12. Ratio of actuarial value to market value of assets	98.68%	95.49%



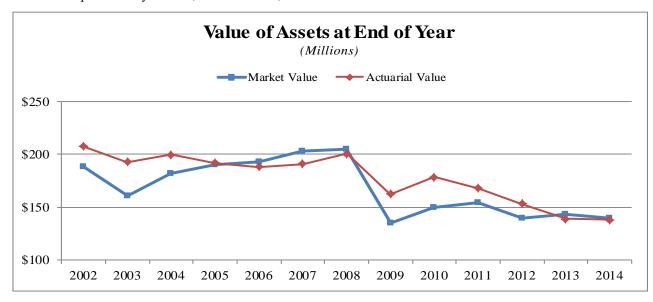
^{*} Current year market rate of return is based on unaudited data and is supplied by NEPC, LLC.

** The interest accrual of 8.00% is used for the period January 1, 2013 through December 31, 2013. Effective January 1, 2014, the assumed interest rate is 7.75%.

History of Investment Returns

Plan Year	Market Value	Actuarial Value
(1)	(2)	(3)
2000	-0.99%	16.60%
2001	-4.47%	10.82%
2002	-9.29%	-2.27%
2003	21.00%	9.43%
2004	11.54%	1.88%
2005	8.22%	4.35%
2006	12.63%	8.23%
2007	7.44%	11.89%
2008	-29.63%	-12.90%
2009	23.72%	18.78%
2010	13.80%	1.84%
2011	-0.90%	-0.44%
2012	14.05%	-0.07%
2013	13.53%	12.29%
2014	4.70%	8.89%
Average returns:		
Last five years:	8.86%	4.38%
Last ten years:	5.71%	4.94%

The market rates above were provided by NEPC, LLC. The actuarial rates above are based on the financial information provided by McGee, Hearne & Paiz, LLP.





Solvency Test

Valuation Date	Total Active Member Contributions	Inactive and Pensioner Liability	Employer Financed Active Accrued Liability	Actuarial Value of	Percentage of Liabilities Covered by Assets		
January 1	(1)	(2)	(3)	Assets	(1)	(2)	(3)
2004	\$1,095,000	\$162,675,000	\$17,820,000	\$199,882,000	100%	100%	204.3%
2005	1,471,000	167,299,000	16,877,000	192,097,000	100%	100%	138.2%
2006	1,271,000	171,300,000	17,881,000	188,318,000	100%	100%	105.8%
2007	1,076,000	174,599,000	12,278,000	191,123,000	100%	100%	125.8%
2008	938,000	176,480,000	10,950,000	200,587,700	100%	100%	211.6%
2009	513,619	179,393,300	12,599,000	162,628,400	100%	90.4%	0%
2010	408,160	184,570,961	10,885,759	178,577,966	100%	96.5%	0%
2011	259,464	189,063,504	6,882,584	168,037,972	100%	88.7%	0%
2012	226,353	189,373,457	6,085,396	153,370,736	100%	80.9%	0%
2013	226,353	188,732,687	6,240,155	139,181,449	100%	73.6%	0%
2014	96,203	203,198,729	2,960,335	140,917,231	100%	69.3%	0%
2015	96,203	202,384,610	2,735,286	138,087,746	100%	68.2%	0%



Schedule of Funding Progress

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Valuation	Actuarial	Actuarial Accrued	Unfunded AAL	Funded		UAAL as a Percentage of Covered
Date January 1	Value of Assets	Liability (AAL)	(UAAL) [(3) - (2)]	Ratio [(2)/(3)]	Covered Payroll	Payroll [(4)/(6)]
2003	\$192,928,800	\$212,222,700	\$19,293,900	90.91%	\$1,928,206	1,000.61%
2004	199,882,000	181,290,000	(18,592,000)	110.26%	1,520,768	(1,222.54%)
2005	192,096,700	185,647,000	(6,449,700)	103.47%	1,471,750	(438.23%)
2006	188,317,600	187,452,000	(865,600)	100.46%	1,271,170	(68.09%)
2007	191,123,500	187,953,100	(3,170,400)	101.69%	1,076,419	(294.53%)
2008	200,587,700	188,367,800	(12,219,900)	106.49%	937,915	(1,302.88%)
2009	162,628,400	192,506,400	29,878,000	84.48%	762,233	3,917.80%
2010	178,577,966	195,864,880	17,286,914	91.17%	860,343	2,009.30%
2011	168,037,972	196,205,552	28,167,580	85.64%	551,862	5,104.09%
2012	153,370,736	195,685,206	42,314,470	78.38%	481,271	8,792.22%
2013	139,181,449	195,199,195	56,017,746	71.30%	486,270	11,519.88%
2014	140,917,231	206,255,267	65,338,036	68.32%	198,404	32,931.75%
2015	138,087,746	205,216,099	67,128,353	67.29%	179,486	37,400.39%



Schedule of Contributions from the Employer(s) and Other Contributing Entities

(1)	(2)	(3)	(4)	(5)	(6)
Fiscal Year Ending	Actuarially l Contri		Employer Co	ntributions*	Percentage of Actuarially Determined Contribution Contributed
December 31	% of Payroll	Amount	% of Payroll	Amount	[(5)/(3)]
2004	145.71%	\$2,215,900	0.00%	\$0	0.00%
2005	33.58%	494,200	0.00%	0	0.00%
2006	19.21%	244,200	0.00%	0	0.00%
2007	24.31%	261,700	0.00%	0	0.00%
2008	28.62%	268,400	0.00%	0	0.00%
2009	604.70%	4,609,216	0.00%	0	0.00%
2010	324.95%	2,795,684	0.00%	0	0.00%
2011	774.69%	4,275,217	0.00%	0	0.00%
2012	1308.39%	6,296,901	50.49%	242,988	3.86%
2013	1703.66%	8,284,395	0.00%	0	0.00%
2014	4767.08%	9,458,093	0.00%	0	0.00%
2015	5412.52%	9,714,697			

^{*} Employer contributions were suspended in 1997. The employer contribution for 2013 reflects recoupment from a plan audit.

Reconciliation of Participant Data

	Active Participants	Vested Former Participants	Retired Participants	Disableds	Beneficiaries	Participants Due Refunds	Total
Number as of January 1, 2014	3	-	224	16	52	1	296
New participants	-	-	-	-	-	-	-
Vested terminations	-	-	-	-	-	-	-
Retirements	-	-	-	-	-	-	-
Disability	-	-	-	-	-	-	-
Deceased with beneficiary	-	-	(3)	(1)	4	-	-
Deceased without beneficiary	-	-	(2)	-	(1)	-	(3)
Due refunds	-	_	-	-	-	-	_
Lump sum payoffs	-	-	-	-	-	-	-
Rehires/return to active	-	-	-	-	-	-	-
Certain period expired	-	-	-	-	-	-	-
Reclassifications	-	_	(2)	-	2	-	_
Data corrections	-	-	<u>-</u>	-	-	-	-
Number as of January 1, 2015	3	-	217	15	57	1	293



Demographic Statistics

	Janua		
	2015	2014	Change
Active Participants			
Number	3	3	0.0%
Vested	3	3	
Not Vested	0	0	4.004
Average age (years)	57.15	56.15	1.8%
Average service (years)	35.96	34.96	2.9%
Average entry age (years)	21.19	21.19	0.0%
Total payroll*	\$179,486	\$198,404	-9.5%
Average payroll*	\$59,829	\$66,135	-9.5%
Total employee contributions	\$96,203	\$96,203	0.0%
Average employee contributions	\$32,068	\$32,068	0.0%
Vested Former Participants			
Number	0	0	
Average age (years)	0.00	0.00	
Total employee contributions	\$0	\$0	
Average employee contributions	\$0	\$0	
Service Retirees			
Number	217	224	-3.1%
Average age (years)	67.97	67.02	1.4%
Total annual benefits	\$11,359,429	\$11,321,253	0.3%
Average annual benefit	\$52,348	\$50,541	3.6%
Disability Retirees			
Number	15	16	-6.3%
Average age (years)	70.22	68.91	1.9%
Total annual benefits	\$744,336	\$771,993	-3.6%
Average annual benefit	\$49,622	\$48,250	2.8%
Beneficiaries			
Number	57	52	9.6%
Average age (years)	71.91	71.55	0.5%
Total annual benefits	\$2,600,625	\$2,383,906	9.1%
Average annual benefit	\$45,625	\$45,844	-0.5%
Participants Due Refunds			
Number	1	1	0.0%
Total Refunds Due	\$1,544	\$1,544	0.0%

^{*} Projected top-paid firefighter first class salaries for the upcoming valuation year



Distribution of Male Active Members by Age and by Years of Service

Average Age = 57.2 Average Service = 36.0

Age		Whole Years of Service at Valuation Date							
Last Bi		0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	Totals
Less than 20	Count	-	-	-	-	-	-	-	-
	Avg. Salary	-	-	-	-	-	-	-	-
20-24	Count	-	-	-	-	-	-	-	-
	Avg. Salary	-	-	_	-	-	-	-	-
25-29	Count	-	-	-	-	-	-	-	-
	Avg. Salary	-	-	-	-	-	-	-	-
30-34	Count	-	-	-	-	-	-	-	-
	Avg. Salary	-	-	-	-	-	-	-	-
35-39	Count	-	-	-	-	-	-	-	-
	Avg. Salary	-	-	-	-	-	-	-	_
40-44	Count	-	-	-	-	-	-	-	-
	Avg. Salary	-	-	-	-	-	-	-	-
45-49	Count	-	-	-	-	-	-	-	-
	Avg. Salary	-	-	-	-	-	-	-	-
50-54	Count	-	-	-	-	-	-	1	
	Avg. Salary	-	-	-	-	-	-	*	
55-59	Count	-	-	-	-	-	-	2	
	Avg. Salary	-	-	-	-	-	-	*	
60-64	Count	-	-	-	-	-	-	-	_
	Avg. Salary	-	-	-	-	-	-	-	-
65-69	Count	-	-	-	-	-	-	-	_
	Avg. Salary	-	-	-	-	-	-	-	-
70 & Over	Count	-	-	-	-	-	-	-	-
	Avg. Salary	<u> </u>	<u> </u>		<u>-</u>	<u>-</u>	<u>-</u>	-	-
Totals	Count	-	-	-	-	-	-	3	
	Avg. Salary	_	_	-	-	-	-	*	

Average Salary represents annualized top-paid firefighter first class salary for 2014 and is not shown for cells with counts less than or equal to three participants

Distribution of Female Active Members by Age and by Years of Service

Average Age = 0.0 Average Service = 0.0

Ag	Age		Whole Years of Service at Valuation Date								
Last Bi		0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	Totals		
Less than 20	Count	-	-	-	-	-	-	-	-		
	Avg. Salary	-	-	-	-	-	-	-	-		
20-24	Count	-	-	-	-	-	-	-	-		
	Avg. Salary	-	-	-	-	-	-	-	-		
25-29	Count	-	-	-	-	-	-	-	-		
	Avg. Salary	-	-	-	-	-	-	-	-		
30-34	Count	-	-	-	-	-	-	-	-		
	Avg. Salary	-	-	-	-	-	-	-	-		
35-39	Count	-	-	-	-	-	-	-	-		
	Avg. Salary	-	-	-	-	-	-	-	-		
40-44	Count	-	-	-	-	-	-	-	-		
	Avg. Salary	-	-	-	-	-	-	-	-		
45-49	Count	-	-	-	-	-	-	-	-		
	Avg. Salary	-	-	-	-	-	-	-	-		
50-54	Count	-	-	-	-	-	-	-	-		
	Avg. Salary	-	-	-	-	-	-	-	-		
55-59	Count	-	-	-	-	-	-	-	-		
	Avg. Salary	-	-	-	-	-	-	-	-		
60-64	Count	-	-	-	-	-	-	-	-		
	Avg. Salary	-	-	-	-	-	-	-	-		
65-69	Count	-	-	-	-	-	-	-	-		
	Avg. Salary	-	-	-	-	-	-	-	-		
70 & Over	Count	-		-			-	-	-		
	Avg. Salary	-	-	-	-	-	-	-	-		
Totals	Count	-	-	-	-	-	-	-	-		
	Avg. Salary	-	-	_	-	-	-	-	-		

Average Salary represents annualized top-paid firefighter first class salary for 2014 and is not shown for cells with counts less than or equal to three participants

Distribution of Total Active Members by Age and by Years of Service

Average Age = 57.2 Average Service = 36.0

Age		Whole Years of Service at Valuation Date							
Last Bi	rthday	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	Totals
Less than 20	Count	-	-	-	-	-	-	-	-
	Avg. Salary	_	-	-	-	-	-	-	-
20-24	Count	-	-	-	-	-	-	-	-
	Avg. Salary	_	-	-	-	-	-	-	-
25-29	Count	-	-	-	-	-	-	-	-
	Avg. Salary	_	-	-	-	-	-	-	-
30-34	Count	-	-	-	-	-	-	-	-
	Avg. Salary	-	-	-	-	-	-	-	-
35-39	Count	-	-	-	-	-	-	-	-
	Avg. Salary	-	-	-	-	-	-	-	-
40-44	Count	-	-	-	-	-	-	-	-
	Avg. Salary	-	-	-	-	-	-	-	-
45-49	Count	-	-	-	-	-	-	-	-
	Avg. Salary	-	-	-	-	-	-	-	-
50-54	Count	-	-	-	-	-	-	1	
	Avg. Salary	-	-	-	-	-	-	*	>
55-59	Count	-	-	-	-	-	-	2	2
	Avg. Salary	-	-	-	-	-	-	*	:
60-64	Count	-	-	-	-	-	-	-	-
	Avg. Salary	-	-	-	-	-	-	-	-
65-69	Count	-	-	-	-	-	-	-	-
	Avg. Salary	-	-	-	-	-	-	-	-
70 & Over	Count	-	-	-	-	-	-	-	-
	Avg. Salary				_			-	
Totals	Count	-	-	-	-	-	-	3	3
	Avg. Salary	-	-	-	-	-	-	*	*

Average Salary represents annualized top-paid firefighter first class salary for 2014 and is not shown for cells with counts less than or equal to three participants

Schedule of Pension Recipients Added to and Removed from Rolls

			_				Percent	
Fiscal Year Ending December	Added	Annual Pension	Remove	d from Rolls Annual Pension	<u>'</u>	Total Annual Pension	Increase in Annual Pension	Average Annual Pension
31	Count	Benefits	Count	Benefits	Count	Benefits	Benefits	Benefit
2008	7	N/A	6	N/A	308	\$13,081,594	3.39%	\$42,473
2009	7	\$717,462	8	\$326,086	307	13,472,970	2.99%	43,886
2010	6	740,209	9	399,019	304	13,814,160	2.53%	45,441
2011	7	767,782	12	579,402	299	14,002,540	1.36%	46,831
2012	3	481,949	7	308,184	295	14,176,304	1.24%	46,831
2013	10	935,977	13	635,129	292	14,477,152	2.12%	49,579
2014	4	578,284	7	351,046	289	14,704,390	1.57%	50,880

^{*} Includes cost-of-living increases



Pensioners by Monthly Benefit and Status

Males			
Benefit Amount	Beneficiaries	Retirees and Disabled Members	Total
Under \$200	-	-	-
\$200-\$399	-	-	-
\$400-\$599	-	-	-
\$600-\$799	-	-	-
\$800-\$999	-	-	-
\$1,000-\$1,499	-	-	-
\$1,500-\$1,999	-	5	5
\$2,000-\$2,499	-	6	6
\$2,500 & over	-	221	221
Total	-	232	232
Females			
Benefit Amount	Beneficiaries	Retirees and Disabled Members	Total
Under \$200	-	-	-
\$200-\$399	1	-	1
\$400-\$599	-	-	-
\$600-\$799	1	-	1
\$800-\$999	1	-	1
\$1,000-\$1,499	2	-	2
\$1,500-\$1,999	1	-	1
\$2,000-\$2,499	3	-	3
\$2,500 & over	48	-	48
Total	57	-	57
Males & Females			
Benefit Amount	Beneficiaries	Retirees and Disabled Members	Total
Under \$200	-	-	-
\$200-\$399	1	-	1
\$400-\$599	-	-	-
\$600-\$799	1	-	1
\$800-\$999	1	-	1
\$1,000-\$1,499	2	-	2
\$1,500-\$1,999	1	5	6
\$2,000-\$2,499	3	6	9
\$2,500 & over	48	221	269
Total	57	232	289



Pensioners by Age and Status

Average Age Male = 68.1

Average Age Female = 71.9

Average Age Total = 68.9

Males			
Age Last Birthday	Beneficiaries	Retirees and Disabled Members	Total
Under 50	-	-	-
50-54	-	-	-
55-59	-	56	56
60-64	-	45	45
65-69	-	44	44
70-74	-	34	34
75-79	-	19	19
80-84	-	20	20
85 & over	-	14	14
Total	-	232	232
Females			
Age Last Birthday	Beneficiaries	Retirees and Disabled Members	Total
Under 50	1	-	1
50-54	4	-	4
55-59	5	-	5
60-64	7	-	7
65-69	5	-	5
70-74	6	-	6
75-79	14	-	14
80-84	9	-	9
85 & over	6	-	6
Total	57	-	57
Males & Females			
Age Last Birthday	Beneficiaries	Retirees and Disabled Members	Total
Under 50	1	-	1
50-54	4	-	4
55-59	5	56	61
60-64	7	45	52
65-69	5	44	49
70-74	6	34	40
75-79	14	19	33
80-84	9	20	29
85 & over	6	14	20
Total	57	232	289



Pensions Awarded in 2014 by Status

Average Age = 68.1

Males & Females			
Benefit Amount	Beneficiaries	Retirees and Disabled Members	Total
Under \$200	-	-	0
\$200-\$399	-	-	0
\$400-\$599	-	-	0
\$600-\$799	-	-	0
\$800-\$999	-	-	0
\$1,000-\$1,499	-	-	0
\$1,500-\$1,999	-	-	0
\$2,000-\$2,499	-	-	0
\$2,500 & over	4	-	4
Total	4	0	4
Males & Females			
Benefit Amount	Beneficiaries	Retirees and Disabled Members	Total
Under 50	-	-	-
50-54	-	-	-
55-59	-	-	-
60-64	-	-	-
65-69	2	-	2
70-74	-	-	-
75-79	1	-	1
80-84	-	-	-
85 & over	1	-	1
Total	4	0	4

Retirees and Disabled Members by Service at Retirement and Years Since Retirement

(Average Benefit)

Average Service at Retirement = 21.5

Average Years Since Retirement = 19.0

Service at		Years Elapsed Since Retirement							
Retirement		0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	Totals
Less than 5	Count	4	-	9	-	-	-	-	13
	Avg. Benefit	\$5,129	-	\$8,724	-	-	-	-	\$4,389
5-9	Count	-	-	-	1	-	-	-	1
	Avg. Benefit	_	-	-	\$1,782	-	-	-	1,782
10-14	Count	_	1	3	7	-	5	-	16
	Avg. Benefit	_	\$2,080	1,950	2,774	-	\$2,281	-	2,422
15-19	Count	_	-	1	5	2	-	3	11
	Avg. Benefit	_	-	3,453	3,605	\$4,330	-	\$3,802	3,777
20-24	Count	_	2	35	29	15	19	21	121
	Avg. Benefit	_	4,015	4,371	4,096	4,207	4,029	4,202	4,196
25-29	Count	_	14	15	9	5	4	2	49
	Avg. Benefit	_	4,969	5,103	5,291	5,342	5,009	4,147	5,077
30-34	Count	4	1	4	5	1	1	2	18
	Avg. Benefit	6,147	6,604	5,609	4,950	4,440	4,355	4,506	5,343
35 & Over	Count	1	-	-	2	-	_	-	3
	Avg. Benefit	7,271	-	-	4,808	-	-	-	5,629
Totals	Count	9	18	67	58	23	29	28	232
	Avg. Benefit	\$5,819	\$4,793	\$4,445	\$4,138	\$4,475	\$3,874	\$4,177	\$4,348



Pensioners by Year of Retirement

January 1, 2015 Total = 232

Year of Retirement	Count	Year of Retirement	Count
Under 1960	-	1987	9
1960	-	1988	4
1961	-	1989	8
1962	-	1990	7
1963	-	1991	4
1964	-	1992	5
1965	-	1993	1
1966	-	1994	6
1967	-	1995	10
1968	1	1996	5
1969	-	1997	9
1970	1	1998	15
1971	3	1999	19
1972	2	2000	17
1973	1	2001	18
1974	-	2002	13
1975	3	2003	11
1976	-	2004	8
1977	5	2005	7
1978	2	2006	4
1979	2	2007	3
1980	1	2008	1
1981	-	2009	3
1982	1	2010	4
1983	2	2011	1
1984	4	2012	-
1985	6	2013	3
1986	2	2014*	1

^{*}May include retirements as of January 1, 2015



Thirty Year Projected Benefit Payments

Year Ending December 31	Actives	Retirees*	Total
2015	\$ 23,134	\$ 14,878,044	\$ 14,901,178
2016	82,624	15,211,335	15,293,960
2017	146,402	15,522,836	15,669,238
2018	179,921	15,809,916	15,989,837
2019	199,691	16,071,423	16,271,114
2020	216,540	16,306,652	16,523,193
2021	222,980	16,515,360	16,738,340
2022	229,586	16,697,576	16,927,162
2023	236,359	16,853,423	17,089,781
2024	243,292	16,983,209	17,226,501
2025	250,382	17,087,288	17,337,670
2026	257,619	17,165,840	17,423,459
2027	264,992	17,218,888	17,483,881
2028	272,487	17,246,169	17,518,656
2029	280,082	17,246,876	17,526,959
2030	287,752	17,219,946	17,507,698
2031	295,465	17,163,852	17,459,317
2032	303,179	17,076,560	17,379,739
2033	310,849	16,956,140	17,266,989
2034	318,419	16,800,322	17,118,741
2035	325,825	16,606,856	16,932,680
2036	332,992	16,373,581	16,706,573
2037	339,832	16,098,323	16,438,156
2038	346,241	15,779,105	16,125,346
2039	352,096	15,415,101	15,767,196
2040	357,261	15,006,245	15,363,506
2041	361,589	14,552,519	14,914,107
2042	364,915	14,054,791	14,419,706
2043	367,047	13,513,790	13,880,837
2044	367,732	12,930,932	13,298,664

^{*} Includes Disabled Members, Beneficiaries, and Deferred Vested Members. Retirement benefit payments for deferred vested members are assumed to commence at the first age at which unreduced benefits are available.



APPENDIX A

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

Summary of Actuarial Assumptions and Methods

The following methods and assumptions were used in preparing the January 1, 2015 actuarial valuation report.

1. Valuation Date

The valuation date for any given year is January 1st, the first day of each plan year. This is the date as of which the actuarial present value of future benefits and the actuarial value of assets are determined.

2. Actuarial Cost Method

The actuarial valuation uses the Entry Age Normal (EAN) actuarial cost method, amortized as a level dollar amount. Under this method, the employer contribution amount is the sum of (i) the employer normal cost amount, and (ii) the amount that will amortize the unfunded actuarial accrued liability (UAAL).

- a. The valuation is prepared on the projected benefit basis, under which the present value, at the investment return rate assumed to be earned in the future (currently 7.75%), of each participant's expected benefit payable at retirement or death is determined, based on his/her age, service, sex and compensation. The calculations take into account the probability of a participant's death or termination of employment prior to becoming eligible for a benefit, as well as the possibility of his/her terminating with a service, disability, or survivor's benefit. The present value of the expected benefits payable for the active participants is added to the present value of the expected future payments to retired participants and beneficiaries to obtain the present value of all expected benefits payable from the Fund on account of the present group of participants and beneficiaries.
- b. The employer contributions required to support the benefits of the Fund are determined using a level funding approach, and consist of a normal cost contribution and a unfunded accrued liability contribution.
- c. The normal cost contribution is determined using the "entry age normal" actuarial cost method. Under this method, a calculation is made to determine the average uniform and constant percentage amount of employer contribution which, if applied to each new participant during the entire period of his/her anticipated covered service, would be required to meet the cost of all benefits payable on his/her behalf based on the benefits provisions applicable for the individual member.

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d. The unfunded actuarial accrued liability contributions are determined by subtracting the actuarial value of assets from the actuarial accrued liability and amortizing the result over 10 years from the valuation date.

3. Actuarial Value of Assets

The actuarial value of assets is based on the market value of assets with a five-year phase-in of actual investment return in excess of (less than) expected investment income, with interest, dividends, and other income recognized immediately. Expected investment income is determined using the assumed investment return rate and the market value of assets (adjusted for receipts and disbursements during the year). The returns are computed net of administrative and investment expenses. An adjustment is made if the actuarial value is not within 20% of the Market Value. For any year following a year in which the 20% of market value adjustment was applied, the actuarial value is determined as if the adjustment was not applied in the previous year.

4. Economic Assumptions

a. <u>Investment return:</u>

7.75% per year, compounded annually, composed of an assumed 3.25% inflation rate and a 4.50% net real rate of return. This rate represents the assumed return, net of investment expenses.

b. Salary increase rate:

4.25% per year

c. Payroll growth rate:

In the amortization of the unfunded actuarial accrued liability, payroll is not assumed to increase. The assumed payroll growth in a closed plan is 0%.



5. Demographic Assumptions

a. Rates Before Retirement

Healthy Pre-Retirement Mortality:

RP-2000 Combined Mortality Table, fully generational, projected with Scale BB

Males: Set back 4 years with a multiplier of 104% Females: Set back 3 years with a multiplier of 90%

Healthy Post-Retirement Mortality:

RP-2000 Combined Mortality Table, fully generational, projected with Scale BB

Males: Set back 0 years with a multiplier of 104% Females: Set forward 1 year with a multiplier of 90%

Disabled Mortality:

RP-2000 Disabled Mortality Table, fully generational, projected with Scale BB

Males: Set forward 5 years with a multiplier of 120% Females: Set forward 5 years with a multiplier of 120%

	Pre-Retirement		Post-Retirement		Disabled	
	Projected to 2015 using Scale BB					
Age	Male	Female	Male	Female	Male	Female
20	0.03%	0.02%	0.03%	0.02%	2.59%	0.85%
25	0.04%	0.02%	0.04%	0.02%	2.59%	0.85%
30	0.04%	0.02%	0.04%	0.03%	2.59%	0.85%
35	0.05%	0.03%	0.08%	0.04%	2.59%	0.85%
40	0.08%	0.05%	0.11%	0.07%	2.59%	0.85%
45	0.11%	0.07%	0.15%	0.11%	3.32%	1.32%
50	0.16%	0.11%	0.21%	0.16%	4.07%	1.84%
55	0.24%	0.17%	0.36%	0.25%	4.54%	2.25%
60	0.42%	0.28%	0.63%	0.44%	5.02%	2.81%
65	0.71%	0.50%	1.11%	0.82%	5.99%	3.77%
70	1.23%	0.91%	1.84%	1.40%	7.85%	5.23%
75			3.14%	2.33%	10.46%	7.24%
80			5.34%	3.81%	13.55%	10.03%
85			9.18%	6.49%	18.64%	14.24%
90			16.16%	11.19%	29.33%	21.33%
95			25.42%	17.15%	39.52%	27.24%
100			34.25%	21.38%	47.75%	35.17%



b. Disability and withdrawal

	Disa	bility	Withdrawal Ultimate		
Age	Male	Female	Male	Female	
20	0.03%	0.03%	12.00%	12.00%	
25	0.03%	0.03%	8.00%	8.00%	
30	0.03%	0.03%	5.00%	5.00%	
35	0.19%	0.19%	3.00%	3.00%	
40	0.42%	0.42%	1.00%	1.00%	
45	0.65%	0.65%	1.00%	1.00%	
50	0.82%	0.82%	1.00%	1.00%	
55	1.81%	1.81%	0.50%	0.50%	
60	2.00%	2.00%	0.50%	0.50%	

c. Retirement Rates

Age	Rate
50	20%
51	25%
52	25%
53	25%
54	25%
55	25%
56	25%
57	25%
58	25%
59	25%
60	100%
61	100%
62	100%

6. Other Assumptions

- a. Percent married: 100.00% of employees are assumed to be married. (No beneficiaries other than the spouse assumed.)
- b. Age difference: Male members are assumed to be three years older than their spouses, and female members are assumed to be three years younger than their spouses.
- c. Percent electing annuity on death (when eligible): All of the spouses of vested, married participants are assumed to elect an annuity.

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- d. Percent electing deferred termination benefit: Vested terminating members are assumed to elect a refund or a deferred benefit, whichever is more valuable at the time of termination.
- e. Assumed age for commencement of deferred benefits: Members electing to receive a deferred benefit are assumed to commence receipt at the first age at which unreduced benefits are available, which for this plan is 20 years after hire date.
- f. No benefit data is available for members entitled to deferred benefits. The present value of benefits expected to be paid to vested inactive non-retired members is approximated using the data provided.
- g. There will be no recoveries once disabled.
- h. Administrative expenses: Assumed to be the average of the prior two years, with each year projected at 6.5% to the valuation date.
- i. Pay increase timing: Beginning of (fiscal) year. This is equivalent to assuming that reported pay represents amount paid to members during the year ended on the valuation date.
- j. Decrement timing: Decrements of all types are assumed to occur mid-year.
- k. Eligibility testing: Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
- l. Benefit Service: All members are assumed to accrue one year of service each year.

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SUMMARY OF PLAN PROVISIONS

Summary of Plan Provisions

Covered Members Any person who is a member of Wyoming Paid Firemen's Retirement Fund

Plan A. This plan only covers members hired prior to July 1, 1981.

Fireman First Class

The highest salary grade which a fireman can obtain within his department

without any promotion in rank. The term specifically excludes chiefs, officers, engineers, fire equipment operators, secretaries, mechanics,

inspectors and all other specialized grades, ratings and ranks.

Form of Payment Monthly benefit for life. Upon death, 100% of the benefit continues to be

paid to the beneficiary.

Service Retirement

Eligibility 20 or more years of service.

Monthly Benefit 75.0% of the maximum salary for a fireman first class for 20 years of

service plus 1.5% of the maximum salary for a fireman first class for each

year of service in excess of 20 years.

Vesting Any employee who has left the service with at least 10 years of service, and

who has not withdrawn accumulated contributions, is eligible to receive a monthly benefit of 3.75% of final average salary per year of service payable upon the 20th anniversary of employment, or can elect to receive a lumpsum refund of 99.5% of contributions. An employee who terminates with

less than ten years of service is only eligible for the lump-sum benefit.

Disability Retirement

Eligibility No age or service eligibility requirements. Partial or total disability

resulting from an individual and specific act, the type of which would normally occur only while employed as an employee, or as otherwise

defined under W.S. 15-5-204.

Monthly Benefit 75.0% of the maximum salary for a fireman first class for 20 years of

service plus 1.5% of the maximum salary for a fireman first class for each

year of service in excess of 20 years.

Pre-retirement Death Benefit

Eligibility No age or service requirements.

Monthly Benefit 75.0% of the maximum salary for a fireman first class for 20 years of

service plus 1.5% of the maximum salary for a fireman first class for each

year of service in excess of 20 years.

Contributions

Employee None

Employer None

Interest None

Cost-of-Living Improvements

3.0% per year, applied annually following the one-year anniversary of retirement. In the event the most current actuarial valuation indicates the market value of assets is greater than 115% of the actuarial value of liabilities, the Board may elect to grant up to a 5.0% increase if the System's actuary determines such an increase to be actuarially sound.

